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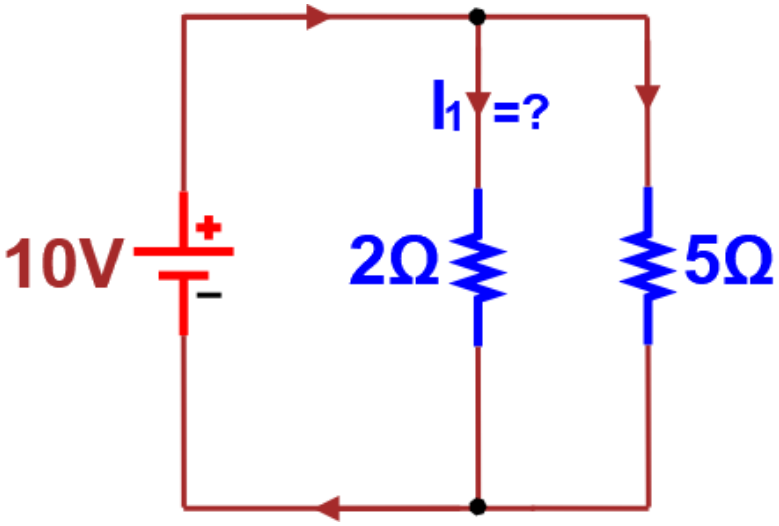
Electrical Problem – 31

Instructions:

1. **Do not discuss with any one while solving the problems**
2. **Do not use internet while solving the problems**
3. **Do not use books while solving the problems**
4. **Do not try to copy from others**
5. **Do the problems in an easy way.**



I1 =V/R1 = 10V/2Ohm

I1 = 5A

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Electrical Problem – 32

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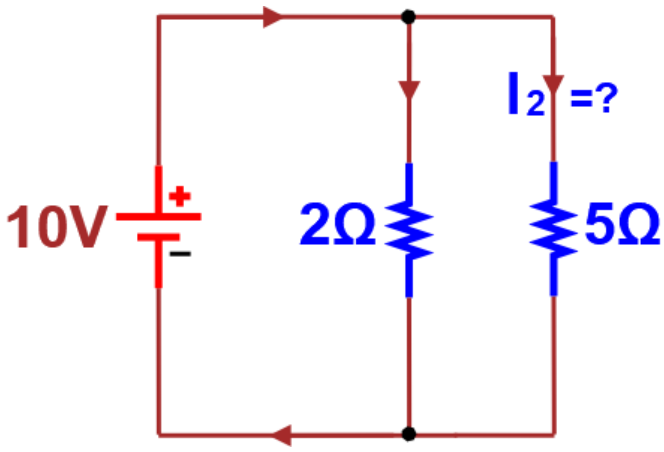

I2 = V/R2
= 10/5
= 2A

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Electrical Problem – 33

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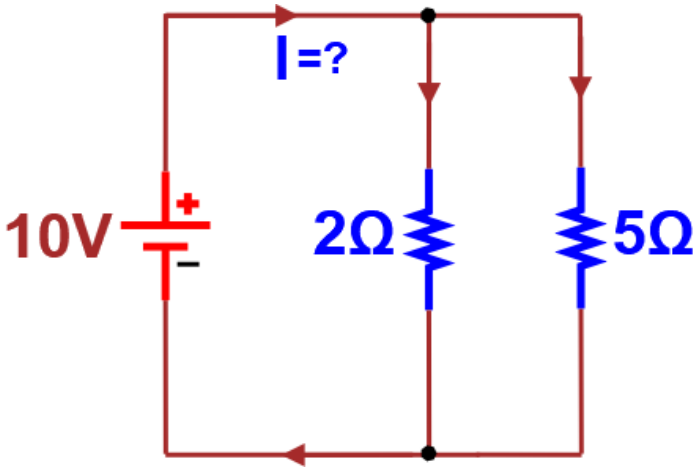

I = V/((R1R2)/(R1+R2))
I = 7A

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Electrical Problem – 34

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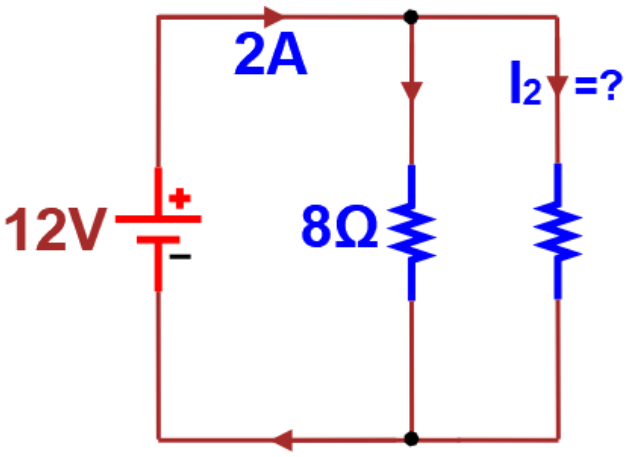

I= 2A , V= 12V
I1 = 12/8 = 1.5A
I2 = I-I1 = 2-1.5
I2 = 0.5A

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Electrical Problem – 35

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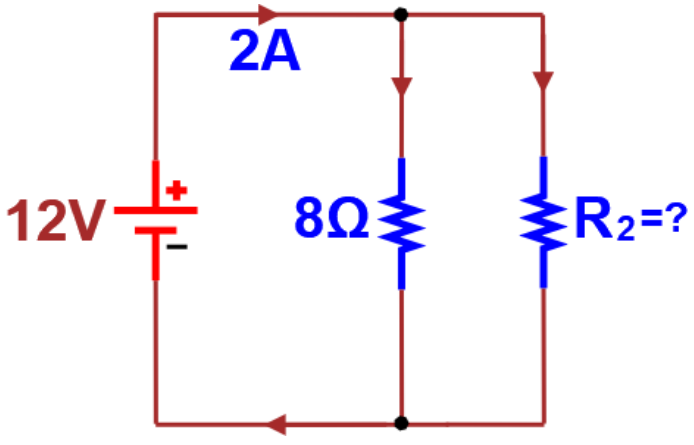

V = 12V , I = 2A
I2 = 0.5A,I1 = 1.5A
R2 = V/I2 = 24Ohm

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Electrical Problem – 36

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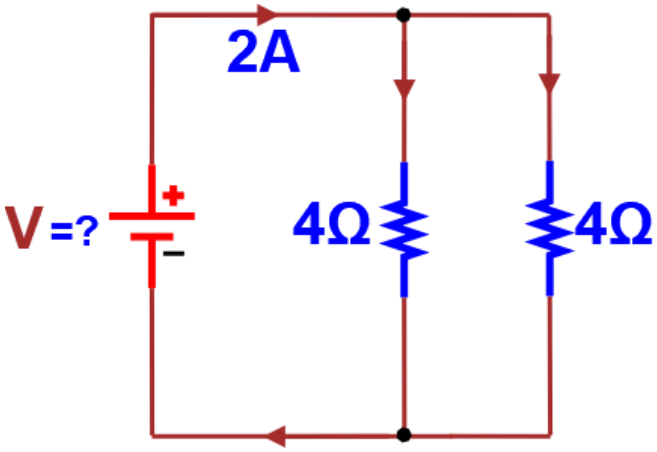

V = I* ((R*1R2)/(R1+R2))
= 2* (16/8)
V= 4V

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Electrical Problem – 37

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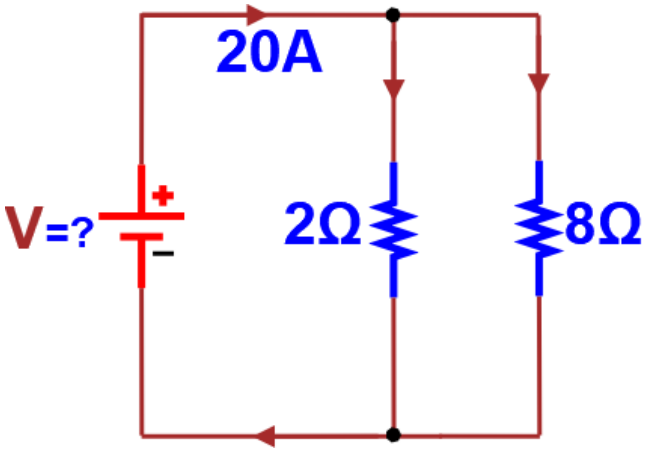

V = I* ((R1*R2)/(R1+R2))
= 20* (16/10)
V= 32V

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Electrical Problem – 38

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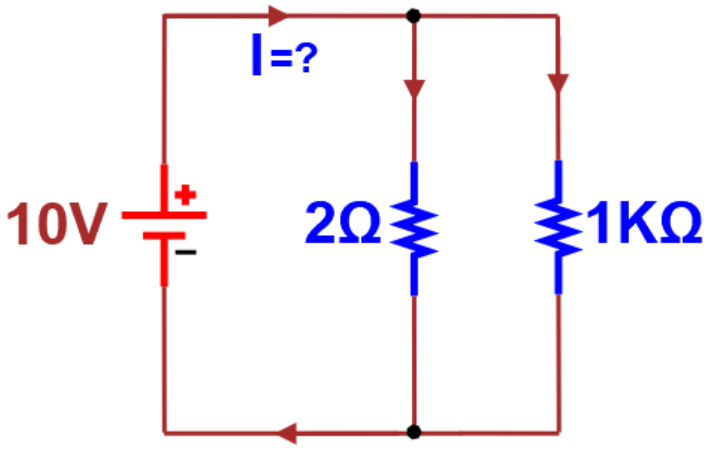

I = V/((R1*R2)/(R1+R2))
= 10/(2000/1002)
I = 5.01A

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Electrical Problem – 39

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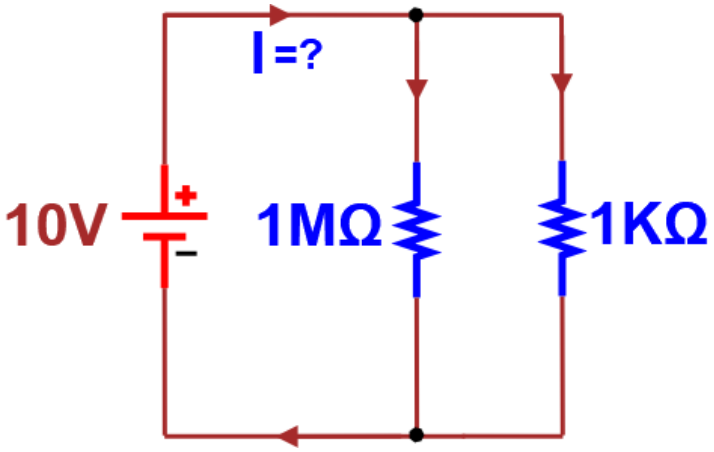

I = V/ ((R1*R2)/(R1+R2))
= 10/ (1000000000/1001000)
I= 10.01mA

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Electrical Problem – 40

Instructions:

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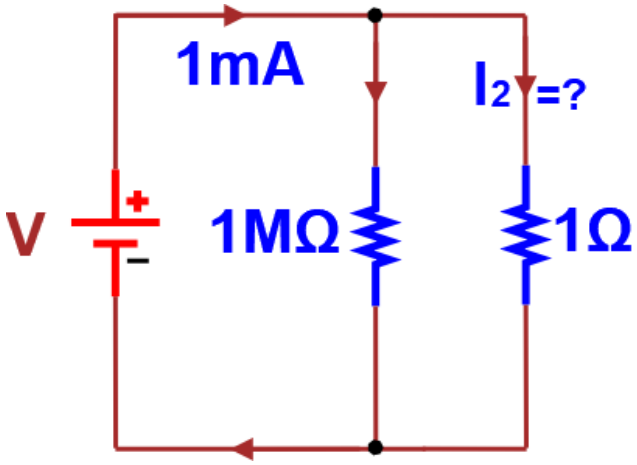

I = 1mA ,
V = I* ((R1*R2)/(R1+R2))
= 0.00099...V
I2 = V/R2
= 0.00099...V/1Ohm
= 0.00099...A
I2 ~ 1mA